

LOW Frequency Crystals

70 KHz-999 KHz

Listed below is the data for the crystals and available mountings according to the various frequency ranges.

Mode of Oscillation

70-200 KHz....Length Shear
185-599 KHz....Edge Shear
600-999 KHz....Shear

Shunt Capacitance 7 pf (Maximum)

70-200 KHz....10,000- 7,000 Ohms
200-500 KHz.... 6,500-11,000 Ohms
800-999 KHz.... 625 Ohms

Drive (Maximum)

70-499 KHz 2 Milliwatts
500-999 KHz 10 Milliwatts

Remember: Just any crystal and just any oscillator will not combine to produce designated spot frequencies!

Description and Data: All of these crystals are of the plated, wire mounted type. Low drift, AT-cut blanks are used in these units above 600 KHz, and low drift CT-cut, DT-cut, SL-cut, and 5°X blanks are used in units below 600 KHz. Any crystal can be supplied for operation with or without an oven.

Type Specifications

General Purpose (GP) crystals will be calibrated to within $\pm .02\%$ of frequency below 600 KHz and $\pm .01\%$ above 600 KHz when operated into the customers specified fundamental load capacitance. GP crystals from 600 to 999 KHz will hold temperature tolerance of $\pm .005\%$ from -30° to 60°C and $\pm .02\%$ for frequencies below 600 KHz.

The calibration will be $\pm .01\%$ for frequencies above 600 KHz.

Commercial Standard (CS) crystals will be calibrated as noted in the table, as specified for operation in customers load. CS crystals will hold temperature tolerance of $\pm .003\%$ from -30° to 60°C above 600 KHz and $\pm .02\%$ below 600 KHz.

Calibration Temperature: 26°C, 60°C

Range: 1, 2, 3, 4, 5

Range	100-199 KHz*	200-599 KHz	600-849 KHz	850-999 KHz
1	\$24.00 .02%	\$14.30 .02%	\$37.50 .01%	\$14.30 .01%
2	\$27.50 .01%	16.30 .01%	39.50 .0025%	16.30 .0025%

Type: 1 GP, 2 CS

Series: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Load: 10 pf, 15 pf, 20 pf, 24 pf, 32 pf, 43 pf, 56 pf, 68 pf, 100 pf

Holder

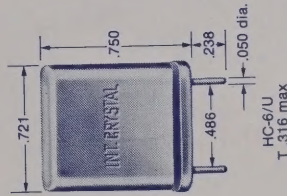
*Note 70-160 KHz
Available Only
In F-13 Holder 8

When ordering, specify the following for each crystal:

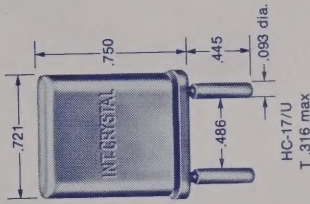
- Quantity
- Catalog Number
- Crystal Frequency

The table at right will enable you to convert the above information to the catalog number section of the M/S Order Card. The first two digits will relate to the calibration temperature, and the remaining four digits will relate to the crystal frequency, type, holder, and the circuit load, in this order.

F-605



F-609



F-13

